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Water based industrial polymers

WONDERBLOCK - Polymer for Stain Blocking Primer

Morgan offers WONDERBLOCK as a new binder technology for water borne stain blocking primers. A major cause of staining comes from water soluble chromophoric compounds like tannin. Until now water was the enemy for stopping the tannin from migrating to the surface and causing unsightly stains. The amount and the composition of tannin in wood are not uniform. The species of the tree and region that it was grown in will designate the amount of penta-meta-digalloylglucoside that is contained in the wood. Penta-meta-digalloylglucoside is a derivative of gallic acid, a colorless solution that turns brown when it comes in contact with air. When ordinary or so called water borne stain blocking primers solubilize the tannin, they migrate to the surface and cause yellow or brown stains. WONDERBLOCK forms a resistant barrier to water soluble tannins and prevents topcoats from staining and retarded drying. Our research chemists have discovered a polymer backbone that is resistant to tannin and nicotine stains. It forms an impenetrable barrier that out performs all other attempts of solving the bleeding of stains. A compliant, 21 grams/liter VOC primer can be formulated with WONDERBLOCK.

Product Specifications

Type -----Water dilutable emulsion
pH----- 5.0 – 6.0
Flash Point ----- Same as Water
Alkylphenolethoxylate Content ----- None

Solids-----42.0 – 44.0 %
Viscosity-----200 – 500 cps
Weight per Gallon -----8.84 lbs.
Specific Gravity-----1.06